From the INTERNATIONAL SEARCHING AUTHORITY

To: PAUL KROON GROSSMAN, TUCKER, PERREAULT & PFLEGER, PLLC 55 SO. COMMERCIAL ST. MANCHESTER, NH 03101	PCT NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION (PCT Rule 44.1)	
M F C F I V E	Date of mailing (day/month/year)	
Applicant's or agent's file reference MAY 0.6 2010	FOR FURTHER ACTION See paragraphs 1 and 4 below	
International application No. PCT/US2010/025464 GROSSMAN, TUCKER, PERREAULT & PFLEGER, PLLC	International filing date (day/month/year) 25 February 2010	
Applicant ARTHROSURFACE INCORPORATED		
The applicant is hereby notified that the international s Authority have been established and are transmitted be	search report and the written opinion of the International Searching	
Filing of amendments and statement under Article The applicant is entitled, if he so wishes, to amend the	19: claims of the international application (see Rule 46):	
When? The time limit for filing such amendments is normally two months from the date of transmittal of the international search report.		
Where? Directly to the International Bureau of Wl 1211 Geneva 20, Switzerland, Facsimile l	IPO, 34 chemin des Colombettes No.: +41 22 338 82 70	
For more detailed instructions, see the notes on the		
2. The applicant is hereby notified that no international Article 17(2)(a) to that effect and the written opinion of	I search report will be established and that the declaration under of the International Searching Authority are transmitted herewith.	
	dditional fee(s) under Rule 40.2, the applicant is notified that:	
the protest together with the decision thereon lapplicant's request to forward the texts of both	has been transmitted to the International Bureau together with the the protest and the decision thereon to the designated Offices.	
no decision has been made yet on the protest; t	he applicant will be notified as soon as a decision is made.	
application, or of the priority claim, must reach the Internation before the completion of the technical preparations for internations	city date, the international application will be published by the postpone publication, a notice of withdrawal of the international onal Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, ational publication. the written opinion of the International Searching Authority to the	
international Bureau. The International Bureau will send international preliminary examination report has been or is to the public but not before the expiration of 30 months from the	a copy of such comments to all designated Offices unless an be established. These comments would also be made available to e priority date.	
examination must be filed if the applicant wishes to postpone	of some designated Offices, a demand for international preliminary the entry into the national phase until 30 months from the priority st, within 20 months from the priority date, perform the prescribed Offices.	
In respect of other designated Offices, the time limit of 30 months.	nonths (or later) will apply even if no demand is filed within 19	
See the Annex to Form PCT/IB/301 and, for details about the <i>Guide</i> , Volume II, National Chapters and the WIPO Internet	e applicable time limits, Office by Office, see the PCT Applicant's site.	
Name and mailing address of the ISA/US	Authorized officer:	
Mail Stop PCT, Attn: ISA/US Commissioner for Patents	Blaine R. Copenheaver	
P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201	Telephone No. 571-272-7774	

From the INTERNATIONAL SEARCHING AUTHORITY

To: PAUL KROON GROSSMAN, TUCKER, PERREAULT & PFLEGER, PLLC 55 SO. COMMERCIAL ST. MANCHESTER, NH 03101	PCT NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION	
	(PCT Rule 44.1)	
	Date of mailing (day/month/year) 03 MAY 2010	
Applicant's or agent's file reference	EOD EUDTHED ACTION Comments 1 and 4 below	
ART052PCT	FOR FURTHER ACTION See paragraphs 1 and 4 below	
International application No. PCT/US2010/025464	International filing date (day/month/year) 25 February 2010	
Applicant ARTHROSURFACE INCORPORATED		
Authority have been established and are transmitted her Filing of amendments and statement under Article 1 The applicant is entitled, if he so wishes, to amend the of the applicant is entitled, if he so wishes, to amend the of the applicant is entitled, if he so wishes, to amend the of the international search report. Where? Directly to the International Bureau of WII 1211 Geneva 20, Switzerland, Facsimile Now For more detailed instructions, see the notes on the search report. The applicant is hereby notified that no international Article 17(2)(a) to that effect and the written opinion of the protest together with the decision thereon here applicant's request to forward the texts of both the protest together with the decision thereon here applicant's request to forward the texts of both the protest together with the decision thereon here applicant's request to forward the texts of both the protest together with the decision thereon here applicant in the priority claim, must reach the International Bureau. If the applicant wishes to avoid or protection of the technical preparations for international before the completion of the technical preparations for international bureau. The International Bureau will send international Bureau. The International Bureau will send international preliminary examination report has been or is to the public but not before the expiration of 30 months from the Within 19 months from the priority date, but only in respect of examination must be filed if the applicant wishes to postpone that (in some Offices even later); otherwise, the applicant must acts for entry into the national phase before those designated of the respect of other designated Offices, the time limit of 30 months.	claims of the international application (see Rule 46): Ints is normally two months from the date of transmittal of the PO, 34 chemin des Colombettes Io.: +41 22 338 82 70 International searching Authority are transmitted herewith. Search report will be established and that the declaration under If the International Searching Authority are transmitted herewith. ditional fee(s) under Rule 40.2, the applicant is notified that: International fee(s) under Rule 40.2, the applicant is notified that: International Bureau together with the hereprotest and the decision thereon to the designated Offices. International application will be published by the costpone publication, a notice of withdrawal of the international nal Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, attonal publication. The written opinion of the International Searching Authority to the a copy of such comments to all designated Offices unless an be established. These comments would also be made available to priority date. If some designated Offices, a demand for international preliminary the entry into the national phase until 30 months from the priority st, within 20 months from the priority date, perform the prescribed	
Guide, Volume II, National Chapters and the WIPO Internet s		
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US	Authorized officer:	
Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450	Blaine R. Copenheaver	

Telephone No. 571-272-7774

Facsimile No. 571-273-3201

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference ART052PCT	FOR FURTHER ACTION a.	see Form PCT/ISA/220 s well as, where applicable, item 5 below.
International application No. PCT/US2010/025464	International filing date (day/month/ye 25 February 2010	(Earliest) Priority Date (day/month/year) 25 February 2009
ARTHROSURFACE INCORPORATED		
according to Article 18. A copy is being This international search report consists	g transmitted to the International Bureau	•
the international appl a translation of the in a translation furnishe b. This international search r authorized by or notified to c. With regard to any nucleot 2. Certain claims were found 3. Unity of invention is lacki 4. With regard to the title, the text is approved as subn	o this Authority under Rule 91 (Rule 43. ide and/or amino acid sequence disclo d unsearchable (see Box No. II). ng (see Box No. III).	which is the language of th (Rules 12.3(a) and 23.1(b)). account the rectification of an obvious mistake
may, within one month from 6. With regard to the drawings, a. the figure of the drawings to be as suggested by the a as selected by this Au	d, according to Rule 38.2, by this Authority, because this figure better chara	suggest a figure.

Form PCT/ISA/210 (first sheet) (July 2009)

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2010/025464

Box No. IV Text of the abstract (Continuation of item 5 of the first sheet)
A system for repairing a defect on an articular surface of a trochlear region, comprising a guide block comprising a body having an exterior surface configured to engage with the saddle portion and ridge portions of the patient's trochlear region, a protrusion extending generally from the body and configured to be received in a first bore formed in the articular surface along a reference axis, and a first cavity extending through the body configured to establish a first working axis displaced from the reference axis, wherein the exterior surface of the body and the protrusion are configured to secure the location of the guide block about the patient's trochlear region. A method for preparing an implant site in bone, comprising: establishing a reference axis extending from the bone; creating a bore in the bone by reaming about the reference axis; and securing a guide block about the articular surface.

Form PCT/ISA/210 (continuation of first sheet (3)) (July 2009)

INTERNATIONAL SEARCH REPORT

International application No. PCT/US2010/025464

IPC(8) - USPC -	SSIFICATION OF SUBJECT MATTER A61F 2/38 (2010.01) 623/20.14 to International Patent Classification (IPC) or to both the substitution of the substi	national classification and IPC	
	DS SEARCHED		######################################
IPC(8) - A61	ocumentation searched (classification system followed by IF 2/30, 2/38 (2010.01) /20,14, 20.15, 20.16, 20.17, 20.18, 20.18, 20.2, 39	classification symbols)	
Documentat	ion searched other than minimum documentation to the ex	xtent that such documents are included in the	fields searched
	ata base consulted during the international search (name of Google Patents	of data base and, where practicable, search ten	rms used)
C. DOCU	MENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where a	ppropriate, of the relevant passages	Relevant to claim No.
X Y	US 6,984,248 B2 (HYDE, JR) 08 July 2003 (08.07.200	03) entire document	1-11, 19-25 12-18
Υ	US 2003/0225456 A1 (EK) 04 December 2003 (04.12	2003) entire document	12-18
Υ	US 7,290,347 B2 (AUGOSTINO et al) 06 November 2	007 (06.11.2007) entire document	18
Α	US 4,788,970 A (KARA et al) 06 December 1988 (06.	I2.1988) entire document	1-25
Α	US 4,920,958 A (WALT et al) 01 May 1990 (01.05.199	0) entire document	1-25
Α	US 5,616,146 A (MURRAY) 01 April 1997 (01.04.1997	') entire document	1-25
	•		
,			
L	r documents are listed in the continuation of Box C.		
"A" docume	categories of cited documents: nt defining the general state of the art which is not considered particular relevance	"T" later document published after the intern date and not in conflict with the applica the principle or theory underlying the in	ation but cited to understand
	pplication or patent but published on or after the international	"X" document of particular relevance; the considered novel or cannot be considered.	laimed invention cannot be
cited to	nt which may throw doubts on priority claim(s) or which is establish the publication date of another citation or other reason (as specified)	"Y" document of particular relevance: the o	laimed invention cannot be
	nt referring to an oral disclosure, use, exhibition or other	considered to involve an inventive s combined with one or more other such d being obvious to a person skilled in the	ocuments, such combination
	nt published prior to the international filing date but later than rity date claimed	"&" document member of the same patent fa	amily
Date of the a	ctual completion of the international search	Date of mailing of the international search	h report
15 April 2010		03 MAY 2010	
	ailing address of the ISA/US	Authorized officer:	
P.O. Box 1450	۲, Attn: ISA/US, Commissioner for Patents کی Alexandria, Virginia 22313-1450	Blaine R. Copenheaver PCT Helpdesk: 571-272-4300	
Facsimile No	571-273-3201	PCT OSP: 571-272-7774	

From the

INTERNATIONAL SEARCHING AUTHORITY

To: PAUL KROON
GROSSMAN, TUCKER, PERREAULT &
PFLEGER, PLLC
55 SO. COMMERCIAL ST.
MANCHESTER, NH 03101

PCT

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

			(PCT Rule 4	3 <i>bis</i> .1)
		Date of mailing (day/month/year)	03 MAY	2010
Applicant's or agent's file reference		FOR FURTHER A	CTION	
ART052PCT		See paragraph 2 below		
International application No.	International filing date			• • •
PCT/US2010/025464	25 February 2010	25 February 2009		2009
International Patent Classification (IPC) (IPC(8) - A61F 2/38 (2010.01) USPC - 623/20.14		tion and IPC		
Applicant ARTHROSURFACE INC	ORPORATED	NO. 07,000 (1910) (1910		
This opinion contains indications rel	ating to the following iten	ns:		
Box No. I Basis of the op	inion			
Box No. II Priority				
Box No. III Non-establishr	Non-establishment of opinion with regard		e step and industr	ial applicability
Box No. IV Lack of unity of	of invention			
Box No. V Reasoned state citations and ex	Box No. V Reasoned statement under Rule 43 bis. 1(a)(citations and explanations supporting such			p or industrial applicability;
Box No. VI Certain docum	ents cited			
Box No. VII Certain defects	Certain defects in the international application			
Box No. VIII Certain observ	I Certain observations on the international application			
2. FURTHER ACTION				
If a demand for international prelim International Preliminary Examining other than this one to be the IPEA ar opinions of this International Searchi	Authority ("IPEA") excer d the chosen IPEA has n	ot that this does not ap otified the Internation	ply where the app	licant chooses an Authority
If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.			vited to submit to the IPEA the date of mailing of Form	
For further options, see Form PCT/ISA/220.				
3. For further details, see notes to Form	PCT/ISA/220.			
Name and mailing address of the ISA/US	Date of completion of the	nis opinion	Authorized o	fficer:
Mail Stop PCT, Attn: ISA/US Commissioner for Patents	•			e R. Copenheaver
P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201	15 April 2010		PCT Helpdesk: 571-27 PCT OSP: 571-272-77	

International application No. PCT/US2010/025464

Box	No. I	Basis of this opinion
1.	With re	egard to the language, this opinion has been established on the basis of:
	\boxtimes	the international application in the language in which it was filed.
		a translation of the international application into which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).
2.		This opinion has been established taking into account the rectification of an obvious mistake authorized by or notified to this Authority under Rule 91 (Rule 43bis.1(a))
3.	With re	egard to any nucleotide and/or amino acid sequence disclosed in the international application, this opinion has been shed on the basis of a sequence listing filed or furnished:
	a. (me	eans)
	<u>L</u>	on paper
	<u> </u>	in electronic form
	b. (tin	ne)
	È	in the international application as filed
		together with the international application in electronic form
		subsequently to this Authority for the purposes of search
4.		In addition, in the case that more than one version or copy of a sequence listing has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
5.	Additio	nal comments:

International application No.

PCT/US2010/025464

150	k No. V Reasoned statement to citations and explana		bis.1(a)(i) with regard to novelty, inventive ng such statement	step or industrial applicability;
1.	Statement			
	Novelty (N)	Claims	12-18	YES
		Claims	1-11, 19-25	NO NO
	Inventive step (IS)	Claims	None	YES
		Claims	1-25	NO NO
	Industrial applicability (IA)	Claims	1-25	YES
		Claims	None	NO

2. Citations and explanations:

Claims 1-11 and 19-25 lack novelty under PCT Article 33(2) as being anticipated by Hyde, Jr. (hereafter Hyde).

Referring to claim 1, Hyde discloses a method for preparing an implant site in bone (Abstract), comprising: establishing a reference axis (CH1) extending from said bone; creating a bore in said bone by reaming about said reference axis (Col. 3, Lns. 42-51; Figs 2A-2R, 3 and 5); securing a guide block (guide assembly 12) about said articular surface(as in Fig. 3); establishing a first working axis (CH2) extending from said bone using said guide block (Col. 3, Lns. 42-51; Figs. 2A-2R, 3 and 5), said first working axis (CH2) is displaced from said reference axis (CH1; Figs. 2A-2R where CH2 is displaced from CH1); and creating a first socket (via core cutter 30) in said bone by reaming about sald first working axis (Fig. 5), wherein said first socket partially overlaps with said bore (Figs. 2A-2R, 3 and 5).

Referring to claim 2, Hyde discloses all limitations of claim 1, and further discloses wherein said guide block comprises a body including a base portion and sidewall portions having a generally arcuate shaped exterior surface (Figs. 4A-4C) generally configured to engage with the saddle and ridge portions of a patient's trochlear region (Col. 22, Lns. 29-32 – The method and apparatus according to the present invention can generally be applied to any articular joint having at least two major bones. Further examples include, but are not limited to the... knee; Col. 10, Lns. 31-34).

Referring to claim 3, Hyde discloses all limitations of claim 2, and further discloses wherein securing said guide block further comprises advancing a protrusion extending generally from a body of said guide block into said bore (Figs. 5, 7, 8 and 10).

Referring to claim 4, Hyde discloses all limitations of claim 2, and further discloses wherein securing said guide block further comprises advancing at least one pin (pins 14) through a passageway (the unnumbered passageway formed about pins 14 in Figs. 3-5) in said body and into bone (Figs. 3-5, pin 14) proximate to said trochlear region (Col. 23, Lns. 39-42; Col. 10, Lns. 31-34).

Referring to claim 5, Hyde discloses all limitations of claim 2, and further discloses establishing a second working axis (CH2) extending from said bone using said guide block (Col. 3, Ln. 60 – Col. 4, Ln. 3.), said first working axis (CH1) is displaced from said reference axis (CH2) and creating a second socket in said bone (Col. 9, Lns. 10-18) wherein said second socket partially overlaps with said bore (Figs. 2L-2R) and wherein said first and second sockets and said bore are generally aligned along an inferior-superior plane of said articular surface (Figs. 2A-2R; Col. 23, Lns. 39-42).

Referring to claim 6, Hyde discloses all limitations of claim 2, and further discloses advancing a reamer through a cavity extending through said body of said guide block after said guide block is secured to said articular surface (Figs. 5 and 6); inserting a guide bushing into said cavity subsequent to advancing said reamer (as in Figs. 10 and 11), said guide block comprising a first excision passageway configured to receive a shaft of said reamer along said first working axis (as in Figs. 5, 6 and 7), wherein a said radial cutter of said reamer is disposed adjacent to said articular surface (Figs. 8, 9A, 9B, 14A, 14B, 23 and 24); and rotating said reamer within said first excision passageway and advancing said radial cutter into said articular surface to form a first socket (Figs. 8, 9A, 9B, 14A, 14B, 23 and 24; Col. 14, Lns. 1-5).

Referring to claim 7, Hyde discloses a system for repairing a defect on an articular surface of a patient's trochlear region (Col. 8, Lns. 38-41; Col. 23, Lns. 39-42), said system comprising: a guide block (guide assembly 12) comprising: a body having an exterior surface configured to engage (via pin 14) with the saddle portion and ridge portions of said patient's trochlear region (Col. 22, Lns. 29-32 — The method and apparatus according to the present invention can generally be applied to any articular joint having at least two major bones. Further examples include, but are not limited to the... knee); a protrusion extending generally from said body and configured to be received in a first bore formed in said articular surface along a reference axis (Figs. 5 and 6); and a first cavity extending through said body configured to establish a first working axis (CH2; Fig. 2A); wherein said exterior surface of said body and said protrusion are configured to secure the location of said guide block about said patient's trochlear region (Figs. 3-5; Col. 23, Lns 39-42).

Referring to claim 8, Hyde discloses all limitations of claim 7, and further discloses wherein said body includes a base portion and sidewall portions having a generally arcuate shaped exterior surface (Figs. 4A-4C) generally configured to engage with the saddle portion and ridge portions of said patient's trochlear region, respectively (Col. 23, Lns. 39-42).

International application No.

PCT/US2010/025464

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of

Referring to claim 9, Hyde discloses all limitations of claim 8, and further discloses further comprising a pin (14) and a first passageway (unnumbered passageway formed about pin 14 in Figs. 3-5) extending through said body configured to receive said first pin (Figs. 3-5), wherein said first pin is configured to engage bone proximate to said trochlear region (Col. 22, Lns. 29-32 — The method and apparatus according to the present invention can generally be applied to any articular joint having at least two major bones. Further examples include, but are not limited to the... knee), and wherein said exterior surface of said body, said protrusion, and said first pin extending through said first passageway are configured to secure the location of said guide block about said patient's trochlear region (Figs. 3-5; Col. 23, Lns. 39-42).

Referring to claim 10, Hyde discloses all limitations of claim 9, and further discloses further comprising a second pin (pin 14) and a second passageway (unnumbered passageway formed about pin 14 in Figs. 3-5) extending through said body configured to receive said second pin (Figs. 3-5), wherein said second pin is configured to engage bone proximate to said trochlear region (Col. 23, Lns. 39-42), and wherein said exterior surface of said body, said protrusion, and said first and said second pins extending through said first and second passageways are configured to secure the location of said guide block about said patient's trochlear region (Figs. 3-5; Col 23, Lns. 39-42).

Referring to claim 11, Hyde discloses all limitations of claim 7, and further discloses wherein said protrusion is configured to be received in said first bore in a generally interference-type fit (Figs. 3-5).

Referring to claim 19, Hyde discloses all limitations of claim 7, further comprising a second cavity extending (Figs. 2H-2J, 2N and 2O) through said body configured to establish a second working axis (CH2) displaced from said reference axis (CH1), wherein said second working axis is configured to define a center point of a third bore (AH1, AH2) in said articular surface.

Referring to claim 20, Hyde discloses the system of claim 19, further wherein said first and second cavities and said protrusion are configured to be generally aligned along an inferior-superior plane of said articular surface (Figs. 2H-2J, 2N, 2O, 3, 4A-C and 5). Referring to claim 21, Hyde discloses all limitations of claim 7, and further discloses further comprising a drill guide (Col. 7, Lns. 4-7 – The first non-articular surface SA is preferably superficial to a surface of a body part such as extremities and, therefore is more accessible to a surgeon for commencing drilling the first bone) configured to establish said reference axis substantially perpendicular to said articular surface (as in Figs. 2C-2F, 2K, 2N, and 2P-2R).

Referring to claim 22, Hyde discloses the system of claim 21, further wherein said drill guide (guide assembly 12) comprises: a cannulated shaft (cylindrical shaft 31); and a proximal end comprising a first and second groove contacting tip (pins 14) configured to contact said articular surface in saddle the saddle portion of said trochlear region along the inferior-superior plane and a first and second tip configured to contact said articular surface generally along the inferior-superior plane (Figs. 3 and 5; Col. 22, Lns. 29-32 — The method and apparatus according to the present invention can generally be applied to any articular joint having at least two major bones. Further examples include, but are not limited to the... knee).

Referring to claim 23, Hyde discloses the system of claim 22, further wherein said first and said second groove contacting tips (pins 14) are fixedly coupled to the cannulated shaft (cylindrical shaft 31; Figs. 3 and 5) and wherein said first and said second ridge contacting tips are moveable with respect to said cannulated shaft and are blased towards to an extended position (note the relative positions of pins 14 and cylindrical shaft 31 in Figs. 3 & 5).

Referring to claim 24, Hyde discloses the system of claim 22, further comprising a reference pin (guide wire 10) configured to be received through said cannulated shaft (cylindrical shaft 31) and secured into bone beneath said articular surface generally along said reference axis (Figs. 3 & 5; Col. 22, Lns. 29-32 — The method and apparatus according to the present invention can generally be applied to any articular joint having at least two major bones. Further examples include, but are not limited to the... knee).

Referring to claim 25, Hyde discloses the system of claim 24, further comprising an excision device (core cutter 30), said excision device comprising a cannulated shaft (cylindrical shaft 31) and a radial cutter (annular cutting element 32) comprising a cutting surface (teeth 33) disposed about a distal end of said shaft, wherein said excision device is configured to be received over said reference pin (guide wire 10) to form said first bore (CH1), sald first bore being centered around said reference axis (Fig. 11 at anchoring screw 86).

Claims 12-17 lack an inventive step under PCT article 33(3) as being obvious over Hyde, Jr. (hereafter Hyde) in view of Ek.

Referring to claim 12, Hyde discloses all limitations of claim 7, but is silent on further comprising a first guide bushing configured to be removably received in said first cavity, said first guide bushing defining a first excision passageway generally aligned with said first working axis. Ek, however, teaches of a system and method for joint resurface repair (Title) comprising a first guide bushing (10) configured to be removably received in a first cavity (Para. [0166]), said first guide bushing defining a first excision passageway (16) aligned with said first working axis (as in pin 20 in Figs. 9a and 9b). It would have been obvious to one of ordinary skill in the art to incorporate the guide busing of Ek with the system of Hyde for the purpose of protecting a passageway in bone from unintended damage.

Referring to claim 13, Hyde In view of Ek discloses all limitations of claim 12. Hyde fails to further disclose wherein said first guide bushing is configured to threadably engage said first cavity. Ek, however, further teaches wherein said first guide bushing is configured to threadably engage said first cavity (Ek, Figs. 1-3b). it would have been obvious to one of ordinary skill in the art to provide wherein said first guide bushing is configured to threadably engage said first cavity, as taught by Ek, to the system of Hyde, for the purpose of securing a bushing in a passageway.

Referring to claim 14, Hyde in view of Ek discloses all limitations of claim 12. Hyde further discloses an excision device (Hyde, 70), said excision device comprising: a shaft (Hyde, 73); and a radial cutter comprising a cutting surface (Hyde 74 and 75) disposed about a distal end of said shaft (Hyde Fig. 12B).

International application No. PCT/US2010/025464

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of:

Referring to claim 15, Hyde in view of Ek discloses all limitations of claim 14. Hyde further discloses forming a second bore (Hyde CH2) in said articular surface partially overlapping with said first bore (Hyde Figs. 2K-2R), wherein said second bore is centered around said second working axis (Hyde Figs. 2K-2R), but fails to explicitly disclose wherein said first excision passageway is configured to receive said shaft of said excision device. Ek, however, further teaches wherein said first excision passageway is configured to receive said shaft of said excision device (as in Ek pin 20 passing through channel 16 in Figs. 9a and 9b). It would have been obvious to one of ordinary skill in the art to provide wherein said first excision passageway is configured to receive said shaft of said excision device, as taught by Ek, to the system of Hyde, for the purpose of protecting the excision passageway from damage by the reamer.

Referring to claim 16, Hyde in view of Ek discloses all limitations of claim 15. Hyde further discloses wherein said radial cutter is disposed adjacent to said articular surface (Hyde Figs. 2A-2R), but fails to explicitly disclose wherein said guide bushing is configured to be received in said first cavity such that said shaft of said reamer extends through said first excision passageway. Ek, however, further teaches wherein said guide bushing (10) is configured to be received in said first cavity (Ek, Para. [0161]) such that said shaft (20) of said reamer extends through said first excision passageway (16; as in Ek Figs. 9a and 9b). It would have been obvious to one of ordinary skill in the art to provide wherein said guide bushing is configured to be received in said first cavity such that said shaft of said reamer extends through said first excision passageway, as taught by Ek, to the system of Hyde, for the purpose of protecting the excision passageway from damage by the reamer.

Referring to claim 17, Hyde in view of Ek discloses all limitations of claim 16. Hyde further discloses wherein said first cavity is configured to allow said radial cutter to pass through to said articular surface in a direction along said second working axis (as in Hyde Figs. 2A-2R).

Claim 18 lacks an inventive step under PCT article 33(3) as being obvious over Hyde, Jr. (hereafter Hyde) in view of Ek and Augostino et al. (hereafter Augostino).
Referring to claim 18, Hyde in view of Ek discloses all limitations of claim 17, but are silent on further comprising indicia on said shaft configured to be aligned with said first excision passageway to define depth of said bore. Augostino, however, teaches of facet joint prosthesis measurement and implant tools (Title) comprising indicia (407) on a shaft (402) configured to aligned with an excision passageway (Figs. 5A, 5B and 6C, Col. 5, Lns. 41-46). It would have been obvious to one of ordinary skill in the art to incorporate Indicia on said shaft configured to be aligned with said first excision passageway to define depth of said bore, as taught by Augostino, in the system of Hyde, for the purpose of finding the appropriate or desirable depth of a bore.
Claims 1-25 meet the criteria set out in PCT Article 33(4) and thus have industrial applicability because the subject matter claimed can be made or used in industry.

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under Article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the *PCT Applicant's Guide*.

In these Notes, "Article," "Rule" and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report and the written opinion of the International Searching Authority, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only (see *PCT Applicant's Guide*, Annex B).

The attention of the applicant is drawn to the fact that amendments to the claims under Article 19 are not allowed where the International Searching Authority has declared, under Article 17(2), that no international search report would be established (see *PCT Applicant's Guide*, International Phase, paragraph 296).

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Preliminary Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When? Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

How? Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet or sheets containing a complete set of claims in replacement of all the claims previously filed must be submitted.

Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively in Arabic numerals (Section 205(a)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

SEQUENCE LISTINGS AND TABLES RELATED THERETO IN INTERNATIONAL APPLICATIONS FILED IN THE U.S. RECEIVING OFFICE

The Administrative Instructions (AIs) under the Patent Cooperation Treaty (PCT), in force as of July 1, 2009, contain important changes relating to the manner of filing, and applicable fees for, sequence listings and/or tables related thereto (sequence-related tables) in international applications. The complete text may be accessed at http://www.wipo.int/pct/en/texts/index.htm.

Effective July 1, 2009, Part 8 and Annex C-bis will no longer form part of the Als. Part 8 was introduced in 2001 as a temporary solution to problems arising from the filing of very large sequence listings on paper and provided for a sequence listing forming part of the international application to be filed in electronic form on physical medium (e.g., CD), together with the remainder of the application on paper. In 2002, Part 8 was expanded to include sequence-related tables and Annex C-bis was added to provide technical requirements. All applicants may now file complete international applications in electronic form, eliminating the need for these

I. AIS PART 8 AND ANNEX C-BIS DELETED AS OF JULY 1, 2009

- A) Sequence-related tables cannot be filed as a separate part of the description or in text format. They . must be provided as an integral part of the international application either:
 - in PDF format as part of an international application filed in electronic form via EFS-Web; or
 - on paper as part of an international application filed on paper.
- B) A sequence listing forming part of an international application may be provided either:
 - in electronic form, as part of an international application filed in electronic form via EFS-Web, in
 - Annex C/ST.25 text format (preferred), or
 - PDF format; or
 - on paper as part of an international application filed on paper.
- C) A sequence listing not forming part of the international application (for search under PCT Rule 13ter) in Annex C/ST.25 text format
 - is not required where the sequence listing forming part of the international application was filed in Annex C/ST.25 text format as part of an international application filed in electronic form via EFS-
 - is required for search where the sequence listing forming part of the international application was
 - is required for search on physical medium (e.g., CD) where the sequence listing forming part of the international application was filed on paper as part of an international application filed on paper.

II. CALCULATION OF THE INTERNATIONAL FILING FEE AND FEE REDUCTION UNDER AI § 707

- A) A sequence-related table must form an integral part of the international application and will incur FULL page fees with no upper limit.
- B) A sequence listing forming part of an international application filed:
 - via EFS-Web in Annex C/ST.25 text format will incur NO page fees;
 - on paper or in PDF format will incur FULL page fees with no upper limit.

III. AVAILABILITY OF SEQUENCE LISTINGS SUBMITTED FOR SEARCH UNDER PCT RULE 13TER

International Searching Authorities will be required to transmit to the International Bureau a copy of an Annex C/ST.25 text format sequence listing provided for search under PCT Rule 13ter. Any such sequence listing will be made available on PATENTSCOPE® (sequence listings forming part of the international application are already available).

IV. JULY 2009 REQUEST (PCT/RO/101)

The Request now has two options for the last sheet: one for paper filings; and one for EFS-Web filings. The July 2009 Request may be accessed at http://www.wipo.int/pct/en/forms/index.htm.